

# List of Plants

## C MENTHOL

Chemid

MENTHOL

### Dosage

ADI=200 ug/kg

LD50=700-3,180 (orl rat) Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. *J. Pharm. Pharmacol.* 46: 14-18, 1994.

Merck 11th Edition

LD50=3,300 mg/kg (orl rat) Zeebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

Mills, Simon and Bone, Kerry. 2000. Phytotherapy. Churchill Livingston, Edinburgh.

LDlo=2,000->9,000 mg/man/? Martindale's 28th

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Plant Part	Low PPM	High PPM	StdDev	*Reference
Achillea millefolium	Plant	--	--		*
Acinos suaveolens	Shoot	--	3.0	-0.64	Tumen, G. 1991. The Volatile Constituents of Acinos suaveolens (Sibt. et Smith). G. Don fil. Growing in Turkey. <i>J. Ess. Oil Res.</i> 3:191-2.
Acorus calamus	Rhizome	--	--		Pakistan Encyclopedia Planta Medica. 1986.
Agathosma betulina	Leaf Essent. Oil	--	--		*
Artemisia dracunculus	Essential Oil	--	--		*
Artemisia dracunculus	Shoot	50.0	500.0	0.11	*
Artemisia annua	Plant	--	--		*
Brassica oleracea var. capitata l.	Plant	--	--		*
Brassica oleracea var. capitata l.	Leaf	--	--		*
Calamintha nepeta	Leaf	--	1.0	-0.61	Akgul, A., De Pooter, H.L., and De Buyck, L.F. 1991. The Essential Oils of Calamintha nepeta subsp. glandulosa and Ziziphora clinopodioides from Turkey. <i>J. Ess. Oil Res.</i> , 3: 7-10.
Calamintha nepeta	Plant	--	290.0	-0.42	<i>J. Ethnopharmacology</i> , 39: 167.
Camellia sinensis	Leaf	--	--		*
Cocos nucifera	Fruit	--	--		Jim Duke's personal files.
Cymbopogon nardus	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Elytrigia repens	Rhizome	--	18.0	1.0	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Elytrigia repens	Plant	15.0	20.0	-0.62	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Eucalyptus citriodora	Leaf Essent. Oil	--	--		*
Glechoma hederacea	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Hedeoma	Plant	--	10.0	-0.63	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Hedeoma pulegioides	Pollen Or Spore	--	1000.0		*
Hedeoma pulegioides	Plant	6.0	30.0	-0.62	*
Hedeoma pulegioides	Essential Oil	--	--		*
Helianthus annuus	Flower Essent. Oil	235000.0	310000.0		*
Hyptis suaveolens	Plant	--	--		Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Juniperus communis	Fruit Essent. Oil	--	--		*
Juniperus communis	Fruit	--	22.0		*
Levisticum officinale	Root	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Mentha aquatica	Shoot	--	3.0	-0.64	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
Mentha aquatica	Leaf	--	3570.0	-0.19	*
Mentha x piperita	Leaf	156.0	20000.0	1.71	*
Mentha pulegium	Plant	--	3780.0	2.17	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha aquatica	Shoot	--	1.0	-0.64	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
Mentha pulegium	Essential Oil	1000.0	478000.0	1.0	*
Mentha sp	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Mentha aquatica	Shoot	--	--		Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
Mentha spicata	Leaf	8.0	200.0	-0.58	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha spicata	Essential Oil	--	15000.0	-1.0	*
Mentha longifolia	Shoot	--	620.0	0.29	*
Mentha aquatica	Shoot	--	--		Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
Mentha aquatica	Shoot	--	1.0	-0.64	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
Mentha x rotundifolia	Leaf	--	80.0	-0.6	*
Mentha spicata	Leaf	--	375.0	-0.56	*
Mentha pulegium	Shoot	--	--		*
Mentha arvensis var. piperascens	Leaf	1000.0	24385.0	2.22	*
Micromeria fruticosa	Shoot	--	85.0	-0.52	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of <i>Micromeria fruticosa</i> (L.) Druce subsp. <i>barbata</i> (Boiss et. Ky.), P.H. Davis. Aromatic Plants of the Holy Land and the Sinai. Part VII. <i>J. Ess. Oil Res</i> 3: 477-479.
Micromeria fruticosa	Shoot	--	85.0	-0.52	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of <i>Micromeria fruticosa</i> (L.) Druce subsp. <i>barbata</i> (Boiss et. Ky.), P.H. Davis. Aromatic Plants of the Holy Land and the Sinai. Part VII. <i>J. Ess. Oil Res</i> 3: 477-479.
Micromeria fruticosa	Leaf	--	3030.0	-0.26	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . <i>J. Ess. Oil Res.</i> , 3: 387-393.
Micromeria thymifolia	Leaf	--	45.0	-0.6	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . <i>J. Ess. Oil Res.</i> , 3: 387-393.
Minthostachys mollis	Shoot	120.0	215.0	-0.32	Alkire, B.H., Tucker, A.O., and Maciarello, M.J. 1994. Tipo ( <i>Minthostachys mollis</i> (Lamiaceae): An Ecuadorian Mint. <i>Econ. Bot.</i> 48(1): 60-64.
Ocimum basilicum	Essential Oil	--	--		*

<i>Ocimum basilicum</i>	Plant	4.0	52.0	-0.02	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Ononis spinosa</i>	Root	--	--		*
<i>Origanum majorana</i>	Essential Oil	--	--		*
<i>Pelargonium graveolens</i>	Plant	2.0	1852.0	0.74	*
<i>Psidium guajava</i>	Leaf Essent. Oil	--	--		*
<i>Pycnanthemum tenuifolium</i>	Shoot	62.0	620.0	0.29	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum incanum</i>	Shoot	22.0	798.0	0.56	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum setosum</i>	Shoot	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum muticum</i>	Shoot	87.0	450.0	0.03	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum clinopodioides</i>	Shoot	168.0	176.0	-0.38	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum pilosum</i>	Leaf	142.0	700.0	-0.53	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum virginianum</i>	Shoot	18.0	3016.0	3.91	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum montanum</i>	Shoot	28.0	32.0	-0.6	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum beadlei</i>	Shoot	--	140.0	-0.43	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum pilosum</i>	Flower	142.0	700.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Rheum palmatum</i>	Rhizome	--	0.5	-1.0	*
<i>Rhododendron dauricum</i>	Plant	--	--		*
<i>Salvia officinalis</i>	Plant	--	--		*
<i>Salvia officinalis</i>	Leaf	--	--		*
<i>Sambucus nigra</i>	Flower Essent. Oil	--	--		*
<i>Satureja grandiflora</i>	Shoot	--	420.0	-0.01	Carnat, A., Chossegros, A., and Lamaison, J. 1991. The Essential Oil of Satureja grandiflora (L.) Scheele from France. J. Ess. Oil Res., 3: 361-362
<i>Satureja parvifolia</i>	Shoot	--	1010.0	0.88	Zygadlo, J.A., Merino, E.F., Maestri, D.M., Guzman, C.A. and Espinar, L.A. 1993. The Essential Oils of Satureja odora and Satureja parvifolia from Argentina. J. Ess. Oil Res. 5: 549-51.
<i>Satureja odora</i>	Shoot	--	--	-0.65	Zygadlo, J.A., Merino, E.F., Maestri, D.M., Guzman, C.A. and Espinar, L.A. 1993. The Essential Oils of Satureja odora and Satureja parvifolia from Argentina. J. Ess. Oil Res. 5: 549-51.
<i>Sideritis scardica</i>	Shoot	--	370.0	-0.09	Menkovic, N., et al. 1991. The Essential Oil of Sideritis scardica. Pl. Med. 57. Suppl. 2. pp. A137-A132.
<i>Zea mays</i>	Silk Stigma Style	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Zea mays</i>	Leaf	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.